

# Comparisons of Job Characteristics

**Focus Occupation: Food Scientists and Technologists (19-1012)**

**Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

Compare Knowledge

Compare Skills

Compare Abilities

Compare Detailed Work Activities

Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 37

Focus Occupation: Food Scientists and Technologists (19-1012)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Production and Processing	6.0	17.4	18.6	0 Current knowledge level may be sufficient
Administration and Management	8.4	14.0	10.6	<< Extensive education and/or training may be required
Education and Training	9.2	11.1	10.8	0 Current knowledge level may be sufficient
Mechanical	6.8	10.9	7.3	<< Extensive education and/or training may be required
Mathematics	9.2	10.6	14.5	>> Current knowledge level is likely more than sufficient
Personnel and Human Resources	5.6	10.2	7.0	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 80

Focus Occupation: Food Scientists and Technologists (19-1012)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Time Management	8.9	12.6	10.3	< A higher skill level may be required
Coordination	9.1	12.0	10.7	< A higher skill level may be required
Management of Personnel Resources	6.9	11.8	8.7	<< Extensive development of skills in this area may be required
Negotiation	6.8	9.8	9.7	0 Current skill level may be sufficient
Management of Material Resources	3.7	5.8	3.6	<< Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Abilities

Similarity of Focus Occupation to Associated Occupation: 92

**Focus Occupation: Food Scientists and Technologists (19-1012)**

**Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Oral Expression	12.4	14.0	13.8	0	Current ability level may be sufficient
Oral Comprehension	12.5	13.3	14.5	0	Current ability level may be sufficient
Written Comprehension	11.0	12.2	14.5	>	Current ability level is likely sufficient
Problem Sensitivity	11.1	12.1	13.9	>	Current ability level is likely sufficient
Deductive Reasoning	10.6	11.4	13.5	>	Current ability level is likely sufficient
Speech Clarity	10.2	11.0	10.8	0	Current ability level may be sufficient
Written Expression	9.8	11.0	13.3	>	Current ability level is likely sufficient
Inductive Reasoning	10.2	10.7	14.5	>>	Current ability level is likely more than sufficient
Originality	7.6	9.7	11.1	>	Current ability level is likely sufficient
Fluency of Ideas	7.6	9.1	11.0	>	Current ability level is likely sufficient
Perceptual Speed	7.4	8.4	9.0	0	Current ability level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 55

**Focus Occupation: Food Scientists and Technologists (19-1012)**

**Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)**

Work Activities	Exclusivity of Activity
Communicate technical information	4
Maintain records, reports, or files	5
Prepare reports	8
Recommend improvements to work methods or procedures	64

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 48

**Focus Occupation: Food Scientists and Technologists (19-1012)**

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<b>Tools and Technologies</b>	<b>Exclusivity</b>
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.